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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/727,061	12/02/2003	Scott Jacobs	130136	9480
7590 10/15/2007			EXAMINER	
Law Offices of John S. Munday PO BOX 423			NGUYEN, CAMTU TRAN	
Isanti, MN 55040			ART UNIT	PAPER NUMBER
			3772	
		•	MAIL DATE	DELİVERY MODE
			10/15/2007	DADER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION		ATTORNEY DOCKET NO.	
10727061	12/2/03	JACOBS, SCOTT	130136 EXAMINER		
Law Offices of John S. Munday PO BOX 423			Camtu T Nguyen		
Isanti, MN 55040			ART UNIT	PAPER	
			3772	20070917	

DATE MAILED:

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Commissioner for Patents

Applicant's Reply Brief filed on May 24, 2007 has been entered and considered. This application has been forwarded to the Board of Patents & Interference for decision on the appeal.



Commissioner for Patents United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

Application Number: 10/727,061 Filing Date: December 02, 2003 Appellant(s): JACOBS, SCOTT

MAILED 0CT 15 2007 GROUP 3700

Mr. John Munday
For Appellant

SUPPLEMENTAL EXAMINER'S ANSWER

This is in response to the appeal brief filed January 16, 2007.

(1) Real Party in Interest

A statement identifying the real party in interest is contained in the brief.

(2) Related Appeals and Interferences

A statement identifying the related appeals and interferences which will directly affect or be directly affected by or have a bearing on the decision in the pending appeal is contained in the brief.

(3) Status of Claims

The statement of the status of the claims contained in the brief is correct.

(4) Status of Amendments

No amendment after final has been filed.

(5) Summary of claimed subject matter

The summary of invention contained in the brief is correct.

(6) Grounds of Rejection to be Reviewed on Appeal

The following ground(s) of rejection are applicable to the appealed claims:

The appellant's statement of the grounds of rejection to be reviewed on appeal is correct.

(7) Claims Appendix

The copy of the appealed claims contained in the Appendix to the brief is correct.

(8) Evidence Relied Upon

5513984	Ueno	5-1996
5406963	Adell	8-1995
5794627	Frantz, et al	8-1998

(9) Grounds of Rejection

The following ground(s) of rejection are applicable to the appealed claims:

Claims 1-4, 7-10, 13, and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frantz et al (U.S. Patent No. 5,794,627) in view of Adell (U.S. Patent No. 5,406,963).

Frantz discloses in Figures1-4 an applicance having an upper tray and a lower tray holding impression material into which a patient bites and a pull-strap (50) extending forward out of the patient's mouth. Figures 1-3 illustrates an upper and lower trays (12, 14) generally a U-shaped having front portions (26, 28), left and right sides (36, 36', 38, 38') and the sides having side troughs (16, 16', 18, 18') and the putty rope (20) are placed in the troughs (16, 16', 18, 18') as shown in Figure 3. The putty rope (20) moves around the teeth to extend into the teeth undercuts and hardens around the teeth and against the soft tissues in order to secure the traps (12, 14) onto the upper and lower teeth and tissues. Frantz discloses the appliance may be made of plastic and the putty rope placed in the appliance's troughs is an impression material. The Frantz appliance device lacks a plurality of holes therein, as recited. Adell discloses in Figures 1-5 a mouthguard

(10) which generally is a U-shaped for fitting into the mouth and comprising wall (14) and trough (16, 18) on opposite sides. The mouthguard (10) includes series of holes (20) extending through wall (14). Adell discloses a liner (12) received in the trough (16, 18) and Figure 5 illustrates the liner (12) is received through the holes (12). Adell discloses the mouthguard (10) is made of ethylene/vinyl acetate copolymer. Therefore it would have been obvious to one skilled in the art to include holes on the Frantz appliance as taught by Adell as such would fill the impression putty material (20) in the holes, thereby, lock the appliance and the impression putty material together.

Claims 5, 6, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Frantz et al (U.S. Patent No. 5,794,627), as modified above, and further in view of Ueno (U.S. Patent 5,513,984). Frantz et al discloses in Figures1-4 an applicance having an upper tray and a lower tray holding impression material into which a patient bites and a pull-strap (50) extending forward out of the patient's mouth comprising elements as recited in these claims except for the impression material is not a gel, as recited. Ueno discloses in Figures 10 and 11 a construction of a mouthpiece wherein the ball members (3) are arranged and received in a groove (16). Ueno teaches the ball members (3) is made of thermoplastic elastomer (e.g. styrene block copolymer) which offers a softening point of higher than 100° C, higher than that of the mouthpiece.

Therefore it would have been obvious to one skilled in the art during the time of the invention to utilize the styrene block copolymer, suggested by Ueno, in the Frantz appliance as such would provide cushioning effect when compressed upon contact on the user during use.

(10)Response to Argument

Applicant's arguments filed on June 8, 2005 have been carefully considered but they are not persuasive.

Regarding the combination of the Frantz et al device and the Adell device, the Examiner respectfully disagrees with applicant because the combination renders all of the claimed subject matter as obvious. In particular, Frantz et al's second portion is none other than rope of putty (as shown in Figure 3) which is an impression material that moves around the bell-shaped teeth and extends into the teeth undercuts and the soft tissues. This arrangement inherently displays a cushioning effect when compressed upon contact on the user during use. Likewise, the Adell's second portion or the liner (12) is tooth-impresssionable when the device is put to use. This enables the liner (12) to conform to the teeth of the arch, thereby, providing comfort to the teeth, and the teeth vet securely received in the liner (12). Again, such structure displays cushioning effect when compressed upon contact on the user during use. Both the Frantz et al's tray (12) and the Adell's main body (10) clearly having generally U-shape and are in teeth-engaging shape.

Regarding the teaching of the Ueno reference, the Examiner respectfully disagrees with applicant. The Ueno reference teaches the second portion or the ball members (3) formed on the first portion or the mouthpiece, and the Ueno reference teaches ball members (3) are made of thermoplastic elastomer (e.g. styrene block copolymer). It would have been obvious one of ordinary skill in the art during the time of the invention to substitute the Ueno's ball members (3) in Frantz et al's for the putty rope (20) as such would provide cushioning effect when compressed upon contact on the user during use.

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With regards to applicant's first portion, the Adell's mouthguard or main body (10) is made of ethylene/vinyl acetate copolymer, which is the very material claimed by applicant in claim 2-4. The Examiner directs applicant to the specification on page 9 lines 16-20 disclosing the first portion of the present invention is formed from an inert flexible plastic including all as listed and as well as any conventional plastic or other material normally used in dental treatments, particularly those formed into trays or other mouthpieces, may be used in this invention. With that in mind, the Frantz et al teaches the trays (12) are preferably of the general type that may be referred to as bite trays, which are commonly known as the dental trays and those typically are from an inert flexible plastic material. Therefore, the Frantz et al tray (12) is well within reasonable interpretation of the first outer portion.

For the above reasons, it is believed that the rejections should be sustained.

(11) Related Proceeding(s) Appendix

No decision rendered by a court or the Board is identified by the examiner in the Related Appeals and Interferences section of this examiner's answer.

Application/Control Number: 10/727,061

Art Unit: 3772

Respectfully submitted,

CTN

Camtu Nguyen September 18, 2007

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